RECEIVED
CENTRAL FAX CENTER

APR - 1 2004

OFFICIAL

WORKMAN NYDEGGER A PROFESSIONAL CORPORATION ATTORNEYS AT LAW 1000 EAGLE GATE TOWER 60 EAST SOUTH TEMPLE SALT LAKE CITY, UTAH 84111 TELEPHONE (801) 533-9800

TELECOPIER COVER SHEET

FAX (801) 328-1707

April 1, 2004

Total Number of Pages (including cover letter):

34

Please deliver the transmitted facsimile pages to:

MAIL STOP: AMENDMENT EXAMINER DUNG T. NGUYEN

Telecopier Phone:

(703) 872-9306

From:

ERIC L. MASCHOFF, Reg. No. 36,596

Comments:

Please see attached.

Scrial No.:

10/078,473

Docket No.:

15436.438.1

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS ATTORNEY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICE. THANK YOU.

CONFIRMATION COPY WITH ENCLOSURES SENT BY:
U.S. MAIL / FEDERAL EXPRESS / OTHER

YES___ NO_x_

G:\DATA\WPDOCS2\JRJ\RDNDOCS\Fax\Fax Sheet.DOC

FILED VIA FACSIMILE

PATENT APPLICATION Docket: 15436.438.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)
	Hoki Kwon	ĺ
Serial No.:	10/078,473) Art Uni) 2828
Filed:	February 21, 2002)
Confirmation No.:	4854)
For:	CARBON DOPED GAASSB TUNNEL JUNCTION FOR THE APPLICATION OF LONG-WAVELENGTH VCSEL)))
Examiner:	Dung T. Nguyen)

CERTIFICATE OF FACSIMILE TRANSMISSION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

I hereby certify that this paper is being transmitted via facsimile at facsimile number (703) 872-9306 to the Patent and Trademark Office on the date shown below.

Dated this 1st of April, 2004.

Respectfully submitted,

ERIC L. MASCHOFF Attorney for Applicant Registration No. 36,596

Customer No. 022913

Transmitted:

Reply Under 37 C.F.R. D1.111 Information Disclosure Statement

Copy of Transmittal Letter dated February 5, 2004 Cupy of Check No. 41078 in the amount of \$180.00

Copy of Returned Postcord Stamped as being received February 5, 2004

ELM:kjb

W:\15436\438.1\KJB0000003892V001.DQC

RICK D. NYDEGGER BILLING P. LORISHING THOMAS R. VUKSINICK LARRY R. LAYCOCK JONATHAN W. RICHARDS DAVID R. WRIGHT JOHN C. STUNCTIAM JOHN M. GOYNN CHARUS L. ROBBUS DANA I., TANGRUN FRIC L. MASCHOFF CHARLLS J. VENTUKA ROBYN L. PHILTIPS RICHARD C. GILMORE STI RLING A. BRI'NNAN * CRIGGRY M. TAYLOR DAVID B. DELLENBACH R. BURNS ISRAFISIN DAVID R. TODD L. DAVID CRITISIN ADRIAN J. LEE PRASPR D. ROY

CARLT, RUD

R. PARRISH FRILMAN, JR. PETTA F. MALL N. JIC. L. RIX STARS, PH.D. ERIC M. KAMPRATH ROBERT E. AYCOCK JENS C. JI NKINS KEVIN W. STINGER WILLIAM J. ALLIAY Мальяв. В. Доро WILLIAM R. RICHLLR RYAN D. BENNON SARA D. JONES THEIR RELEASE JANNA L. JENSEN MACHIEW D Tono J. LAVAR OLDHAM MKRIAEL J. FRODSHAM JOSEPH L. KRUPA INCUIT A. HANSEN BREET L. JOHNSON MAPHIEW A. BARLOW WESTLY C. ROSANDER ANDREW S. HANSIN CHAD E. NYOPGGER Joseph G. Pla CHINION E. DUKE

WORKMAN | NYDEGGER

INTELLECTUAL PROPERTY ATTORNEYS

1000 EAGLE GATE TOWER
GO EAST SOUTH TEMME
SALT LARE CITY, UTAL 84111
TELEPHONE: (801) 533-9800
FAX: (801) 328-1707
WEBSITE: HTTP://www.whi.ow.com

PATENT APPLICATION Docket No: 15436.438.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
	Hoki Kwon)
Serial No.:	10/078,473) Art Unit) 2828
Conformation No.:	4854)
Filed:	February 21, 2002))
For:	CARBON DOPED GAASSB TUNNEL JUNCTION FOR THE APPLICATION OF LONG-WAVELENGTH VCSEL)))
Examiner:	Dung T. Nguyen)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

TRANSMITTAL FOR RESUBMISSION OF REPLY UNDER 37 C.F.R. □1.111

AND INFORMATION DISCLOSURE STATEMENT

Sir:

Transmitted herewith is a Resubmission of a Reply under 37 C.F.R. \square 1.111 and Information Disclosure Statement. Please note that this is a resubmittal of a response that was timely filed on February 5, 2004, and from information received by the undersigned from the United States Patent and Trademark Office, not yet documented as having being filed.

Also enclosed arc copies of the initial Certificate of Deposit for the Reply and Information Disclosure Statement submitted on February 5, 2004, along with a copy of the original transmittal letter and check number 41078 in the amount of \$180.00, all of which were included in the submission of February 5, 2004.

A copy of the stamped returned postcard indicating the date of filing as February 5, 2004, is enclosed herewith.

- X The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 23-3178.
 - X Any filing fees under 37 CFR 1.16 for the presentation of extra claims.
 - X Any patent application processing fees under 37 CFR 1.17.

Dated this 1st day of April, 2004.

Respectfully submitted,

ERIC L. MASCHOFF

Z-Z.Manly

Attorney for Applicant Registration No. 36,596

Customer No. 022913

ELM:kjb W:\11960\170\KJB0000000609V001.doc

Atly Docket No.: H0002992

Inventor: Hoki Kwan

Application No.:

10/078,473

Filing Date:

February 21, 2002

Title: CAF

CARBON DOPED GAASSB TUNNEL JUNCTION FOR THE

APPLICATION OF LONG-WAVELENGTH (1.3-1.55UM) VCSEL

Documents Filed:

Reply under 37 CFR 1.111 (12 pages; page 12 in duplicate)

Amended Figure 1 (1 page)

Information Disclosuré Statement (2 pages; in duplicate)

PTO Form SB/08 (11 pages)

Cited References (233)

Transmillal (1 page)

Fee Transmillal (1 page)

Check in the amount of \$180.00 (check #41078)

FEB 0 5 2004

MLA Docket # 9610.0011.00

Via: PTO Daily Run

Sender's Initials: SKJ/MRK/kmh

Date: February 5, 2004

	233286	REF. #	MCKENNA Date: 02-05-04
	1335DBOGEDOORANOHO 020504C	er#	LONG
VENDOR BEFERENCE #:	9 02USDAC	# BOIOANI	DRIDGE Lily e; commission
RENCE #:	105970	INVOICE DATE	& ALDRIDGE LLF ATTORNEYS AT LAW PAYEE: COMMISSIONER OF PATENTS***
TOTAL	1110.01960	DESCRIPTION	BANK ALCOUNT: SUNTRUST BANK, ATLANTA VENDOR #: 37437 CHECK #
180.00	180, DST	AMT. PAID	RUST BANK, ATLANTA CHECK # 41078

		14 C Contact and Tradamade	PTO/SB/21 (08-03) for use through 07/31/2006, OMB 0651-0031 Office: U.S. DEPARTMENT OF COMMERCE		
Under the Paparwork Reduction Act of 1996, no perso	ons are required to res	Application Number	10/078,473		
TRANSMITTAL		Filing Date	February 21, 2002		
FORM		First Named Inventor	Hoki Kwon		
1	habiat dilaan	Art Unit	2828		
(to be used for all correspondence after	ENGLE CHRIST	Examiner Name	Dung T. Nguyen		
Total Number of Pages In This Submiss	lon 1	Attorney Docket Number	H0002992		
EN	CLOSURES	(Check all that apply)		
X Fee Transmittal Form	x Drawing(s) (Fig. 1)	After Allowance Communication to Group		
X Fee Altached	Licensing-re	lated Papers	Appeal Communication to Board of Appeals and Interferences		
X Amendment/Reply	Pelition	} (Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)		
After Final	Pelition to C		Proprietary Information		
Affidavits/declaration(s)	Power of Alto Change of Co	orney, Revocation orrespondence Address	Status Letter		
Extension of Time Request	Terminal Dis	claimer	X Other Enclosure(s) (please identify below):		
Express Abandonment Request	Request for	Refund	Cited References (233) PTO SB/08 (11 pages)		
x Information Disclosure Statement	CD; Number	of CD(s)			
Certified Copy of Priority Document(s)			· · · · · · · · · · · · · · · · · · ·		
Response to Missing Parts/	Remarks				
Response to Missing Parts under 37 CFR 1.52 or 1.53	·				
SIGNAT	URE OF APPLIC	ANT, ATTORNEY, OR	AGENT		
Firm MCKENNA LONG 8 or Song K. Jung	ALDRIDGE LI	_P ·			
Signature // A/A	Kestell	Reg No. 4/2	766		
Date February 5, 2004	June 19	/ V V V V V V V V V V V V V V V V V V V			

			U,Ş. <u>P</u> B	tent an	1 Trodemork	Officer U.S.D	igh 7/31/2008, OME EPARTMENT OF C	OMMERCI
Under the Paperwork Reduction Act of 1995, no persons are requi	red to r	espond to	a cole	ction of	information i	unioss il displa	IYA E VARIO UMB CON	ooi numide
FEE TRANSMITTAL		Application Number				plete If Known 10/078,473		
				AMUDE		February 21, 2002		
for FY 2004		Filing Date			Hoki Kwon			
Effective 10/01/2003, Palent tros are subject to sunnel revision.		First Named Inventor Examiner Name			Dung T. Nguyen			
			2828					
Applicant claims small entity status. See 37 CFR 1.27		Art Unit				H0002992		
TOTAL AMOUNT OF PAYMENT (\$) 180,00		Altom	y Doc	ket No				
METHOD OF PAYMENT (check all that apply)				FEE	CALCUL	ATION (con	linued)	
X Check Credit Money Other None Deposit Account:	3. /	ADDITIO	DNAL	FEES		•		
Denotify [e Entity	<u>Small</u>	Entity_	•			
Account 01-1125	Code	Fee (8)	Code	(\$)		Fee Descri	Iption	Fee Pald
S	1051	130	2051	68	Surcharge -	jate filing fee	ar oath	
Account Honeywell International Inc.	1052		2052	25		late provision	nal filing toe or cover	
The Director is authorized to: (check of that apply)	1				sheat			
Charge (eq(s) indicated below X Credit any overpayments	1053	130	1053		1.5	specification		ļ
Charge any additional fee(s) or any underpolyment of fee(s)	1812	2,520	1612	2,520			erty reposition	
Charge (cots) indicated below, except for the filling fee	1804	920"	1804	920*	Evendence	publication of ction		
to the above-identified deposit account.	1805	1,840	1805	1,840	Requesting Examiner or	publication of	SIR after	1.
FEE CALCULATION	1251	110	2251	55		or reply within	first month	
L BASIC FILING FEE	1252	420	2252	210	Extension &	or reply within	ritnom bnoose	<u></u>
Large Entity Small Entity	1253	960	2253	475		or reply within		
Fee Fee Fee Fee Fee Description Fee Paid Code (5) Code (5)	1254	1,480	2254	740	Extension for	or reply within	fourth month	
1001 770 2001 385 Utility Ming fee .	1255	2,010	2255	1,005		or reply within	figh month	
1002 340 2002 170 Design Ring lee	1401		2401	185	Notice of A			
1003 530 2003 206 Plant Illing fee	1403		2402 2403	145	-	if in support of cref hearing	an appen	
1004 770 2004 385 Reisaue filing fee	1451		1451			•	lc use proceeding	Ţ.
1000 100 100 1	1452		2452	55		ovivo – unavo		
SUBTOTAL (1) (\$) 0.00	1453	1,330	2453	865	Pottion to r	eviva - unime	ntlonei	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	150	1,530	2501	565	Utility issue	fae (or relasi	6)	<u> </u>
Extra Pas from Cisime below Fas Paid	150	2 480	2502	240	Design lasu	e fee		
Total Claims =x	1503		2503	320	Plant Issue		.	⊢—
Independent x	1480		146D	130		the Commiss		
Multiple Dependent =	180		1807	50		fee under 37		455
Large Entity Small Entity	180	8 160	1805	•			n Disclosuré Stmi ssignment per	180.0
Fan Fae Fee Fee Fee Fee Pescription	802	1 40	8021	40	property (d	mes number o	of properties)	-
1202 18 2202 9 Claims in excess of 20	1801	9 770	2809	385	(37 ČFR 1.	.129(8))	final rejection	
1201 88 2201 43 Independent ctaires in excess of 3	1810	0 770	2810	385		ddillonal invar (37CFR 1.129		
1203 250 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 "Reissue Independent claims	180		2801	385			xemination (RCE)	
over original patent .	180		1902		Request fo	r expedited ex		
1205 18 2205 9 ** Roissue claims in excess of 20 and over original palant		r fee (spe	1		OI B GOOTO	application		
SUBTOTAL (2) (S) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	*Ra	duced by	Basic f	lling Fe	e Pald	SUBTO	TAL (3) (5)	189.0
SUBMITTED BY						(Complete	(if applicable))	
Name (Print Type) Song K. Jung)	Rep/	stration N	3	5,210		Talaphone	(202) 498-741	3
Signature Walk . Balaks	20	Np.	1/2	760	2	Dele	February 5, 2	004
- June 3 - 1 - 1 - 1 - 1	7							

RECEIVED CENTRAL FAX CENTER

APR - 1 2004

Docket No.: H0002992

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Hoki Kwon

Confirmation No.: 4854

Application No.: 10/078,473

Group Art Unit: 2828

Filed: February 21, 2002

Examiner: Dung T. Nguyen

For: CARBON DOPED GAASSB TUNNEL

JUNCTION FOR THE APPLICATION OF

Customer No.: 000128

LONG-WAVELENGTH VCSEL

REPLY UNDER 37 CFR § 1.111

Mail Stop Non-Fee Amendment P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

INTRODUCTORY COMMENTS

In response to the Office Action dated November 5, 2003, please amend the aboveidentified U.S. Patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 4 of this paper. This listing of claims will replace all prior versions, and listings, of claims in the application.

Amendments to the Drawings begin on page 7 of this paper and include an annotated sheet showing changes.

Remarks begin on page 8 of this paper.

An Appendix including amended drawing figures is attached following page 11 of this paper.